

DG-1145: COL Applications for Nuclear Power Plants Public Workshop



15 March 2006

DG-1145, Combined License (COL) Applications for Nuclear Power Plants (LWR Edition)



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Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
March 15, 2006**

DG-1145

Table of Contents

- A. Introduction
- B. Discussion
- C. Regulatory Position
- D. Implementation

Regulatory Analyses
Appendices

DG-1145, Section C, Part I

Standard Format and Content of Combined License Applications for Nuclear Power Plants

1. Introduction and General Description of Plant
2. Site Characteristics
3. Design of Structures, Components, Equipment, and Systems
4. Reactor
5. Reactor Coolant System and Connected Systems
6. Engineered Safety Features
7. Instrumentation and Controls
8. Electrical Power
9. Auxiliary Systems
10. Steam and Power Conversion
11. Radioactive Waste Management
12. Radiation Protection

DG-1145, Section C, Part I

- 13. Conduct of Operations
- 14. Initial Test Programs
- 15. Accident Analyses
- 16. Technical Specifications
- 17. Quality Assurance
- 18. Human Factors Engineering
- 19. Severe Accidents
 - A. Generic Issues
 - B. Codes and Testing
 - C. Regulatory Treatment of Non-Safety Systems

DG-1145, Section C, Part II

Supplemental Information

1. Probabilistic Risk Assessment
2. Inspections, Tests, Analyses, and Acceptance Criteria
3. Environmental Report

DG-1145, Section C, Part III
Applications Referencing Certified Designs
and/or Early Site Permits

1. Portions of a Safety Analysis Report Addressed by a Certified Design
2. Portions of a Safety Analysis Report Addressed by an Early Site Permit
3. Finality of an Environmental Report Associated with an Early Site Permit
4. Combined License Action Items
5. Design Acceptance Criteria

DG-1145, Section C, Part IV

Miscellaneous Topics

1. COL Application Acceptance Review Checklist
2. Submittal Specifications
3. General Description of Change Processes
4. Operational Programs
5. General and Financial Information
6. Site Redress Plan and Limited Work Authorization
7. Pre-Application Activities
8. Responses to Public Comments on DG-1145
9. Applicability of Industry Guidance

DG-1145 Schedule

- Public workshops:
 - March 15
 - April 20 – 21
 - May*
 - June 5 – 6*
- June 2006 – Issue DG-1145 for public comment
 - July public workshop
- December 2006* – Issue final RG-1145

** tentative date, subject to change*

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DG-1145, Section C, Part IV.1

COL Application Acceptance Review Checklist

- Posted on NRC website on March 9, 2006 for public review and comment and to facilitate early interaction with stakeholders (i.e., prior to issuance of entire DG-1145 for review and comment)
- To provide guidance to NRC staff and stakeholders on the criteria by which COL applications will be reviewed for docketing for scheduling review
- Review focuses on whether sufficient information has been provided in the COL application to complete the NRC staff's review

COL Acceptance Review Checklist Development

- Based on the checklist successfully used to perform the acceptance review for ESBWR design certification application
- Incorporates the requirements from the proposed revised Part 52 rule, Subpart C
- 10 CFR 52.79, Technical Information in the Final Safety Analysis Report (FSAR)
- 10 CFR 52.80, Additional Technical Information in the Final Safety Analysis Report

COL Acceptance Review Checklist Format

- Table of Contents
- Technical Information in the FSAR (proposed 10 CFR 52.79)
- Additional Technical Information in the FSAR (proposed 10 CFR 52.80)
- “Administrative” requirements
- Attachments
 - Appendix A to Part 50 (General Design Criteria)
 - 10 CFR 50.34(f), Additional TMI-Related Requirements

COL Acceptance Review Checklist Format (con't)

- Technical Information in FSAR (proposed 52.79)
 - Corresponds with each item specified in proposed 52.79 and includes notes or clarifications
 - Identifies expected applicable FSAR section(s) for information required
 - Includes checkboxes for Yes and No
 - Includes variations for COL applications that reference standard design approval, standard design certification, and early site permit

COL Acceptance Review Checklist Format (con't)

- Additional Technical Information in FSAR (proposed 10 CFR 52.80)
 - Probabilistic Risk Assessment (PRA)
 - Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC)
 - Environmental Report
- “Administrative” requirements
 - Application submittal documentation requirements and logistics
 - State and local emergency response
 - Construction schedule

COL Acceptance Review Checklist Breakout Session

- Q & A's
- Comments
- Discussion
- Summary
- Next steps